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TITLE : PHASED ARRAY TYPE ULTRASONIC FLAW DETECTOR

ABSTRACT : PROBLEM TO BE SOLVED: To provide a phased array type ultrasonic flaw detector which permits proper control of an ultrasonic beam even when a flaw detection surface is not flat but curved in a complicated shape.

SOLUTION: Vibrators of a phased array ultrasonic flaw detection probe are supported movably in the uniaxial direction through an elastic body while a detector is provided to detect the moving values of the vibrators and transmits a signal according the moving values. An arithmetic circuit is provided to calculate a delay time for the vibrators to focus ultrasonic beams, generated from the vibrators, according the moving values of the vibrators.

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